S&ME

Call Shane Rogers Site Visit
704-996-6334

January 26, 2015

Stonebridge Luxury Homes
PO Box 4297
Mooresville, North Carolina 28117

Attention: Mr. Ron Carroll

Reference: **Technical Assistance with Fast Track Septic Permitting**
Lot 1216 - The Point Subdivision
Iredell County, North Carolina
S&ME, Inc. Project No. 1584-12-058G

Dear Mr. Carroll:

S&ME, Inc (S&ME) has provided technical assistance to obtain a possible four bedroom septic Improvement Permit from the Iredell County Health Department (ICHD) for the referenced lot. The technical assistance was performed in general accordance with S&ME Proposal No. 41-1500028 dated January 8, 2015.

Attached is the Application for the Septic Improvement Permit and the ICHD Fast Track requirements presented to the ICHD on your behalf. The lot was originally permitted by Mr. Brady Freeman, current ICHD Environmental Health Director, in 2003 for a 4 bedroom house pad with a 25 Percent Reduction primary system and a Low Pressure T&J Panel Repair. This permit has expired and you are now requesting a new 4 bedroom Improvement Permit with a similar house pad to that previously permitted. The attached site plan shows the drive now proposed along the west property line and a proposed pool between the house and lake.

The property corners, proposed house and lot lines were flagged by your surveyor. S&ME flagged the proposed septic drainfield and placed 4 hand auger borings on the building lot for the soil evaluation. The proposed septic lines and hand auger borings were approximately sketched on the attached site. The two backhoe pits evaluated by the ICHD are also shown on the site plan.

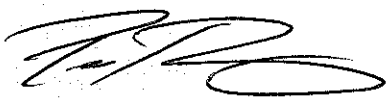
Once the septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system or repair area. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you and the ICHD with the Fast Track site evaluation. The attached plan is not intended to be a Professional Engineer plan. The ICHD must

approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

S&ME, Inc.



Paul G. Penninger, L.S.S.
Soil Scientist



Rob Willcox, L.S.S.
Senior Project Manager

Attachments:

1. ICHD Improvement Permit Application and expired Improvement Permit
2. Site Plan and System Specifications
3. Soil Profile Descriptions

Copy: ICHD

T:\Projects\2012\ENV\1584-12-058 Stonebridge Luxury Homes\1584-12-058G The Point Lot 1216\The Point 1216 Summary Letter.doc

The Point 1216 Fast Track System Information (rev. 3-3-15)

Stonebridge Luxury Homes, S&ME Job No. 1584-12-058G

Number of Bedrooms	**4**
Basement or Crawl	**Crawl**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	5 @ 80 ft.
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	~200' of 2" SCH 40 PVC
Flow Rate through the system	27.5 gpm
Elevation head	*Approx. 17'
Pressure head	2.0'
Friction head	Approx. 5'
20% Contingency	4.8'
Total Head	28.8'
Pump Requirements	29 gpm @ 30' of head
	***To be designed by installer.**
Maximum Dosing Volume	240 gal - 2.0 doses/day @ design flow
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 8.7 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	327' shown *267' Required*
Repair Loading Rate	0.3

...ate Computation Method.
...cts that may be disclosed by a full
...any Easements and Right of Ways of record
...they exist.
...rty is located in a Special Flood Hazard Area
...y the FEMA FLOOD INSURANCE RATE MAPS.
...00K' – Effective Date 3/02/2009.
...20.
...nd within 2000' of Subject Property.
...he Point recorded in DB 1095--1206.

THE POINT LOT 1216 FAST TRACK SITE PLAN

SHORELINE PROJECT 1584-12-058

REVISED 2-26-15'

OK

Lot 1217 MD

1" = 30'

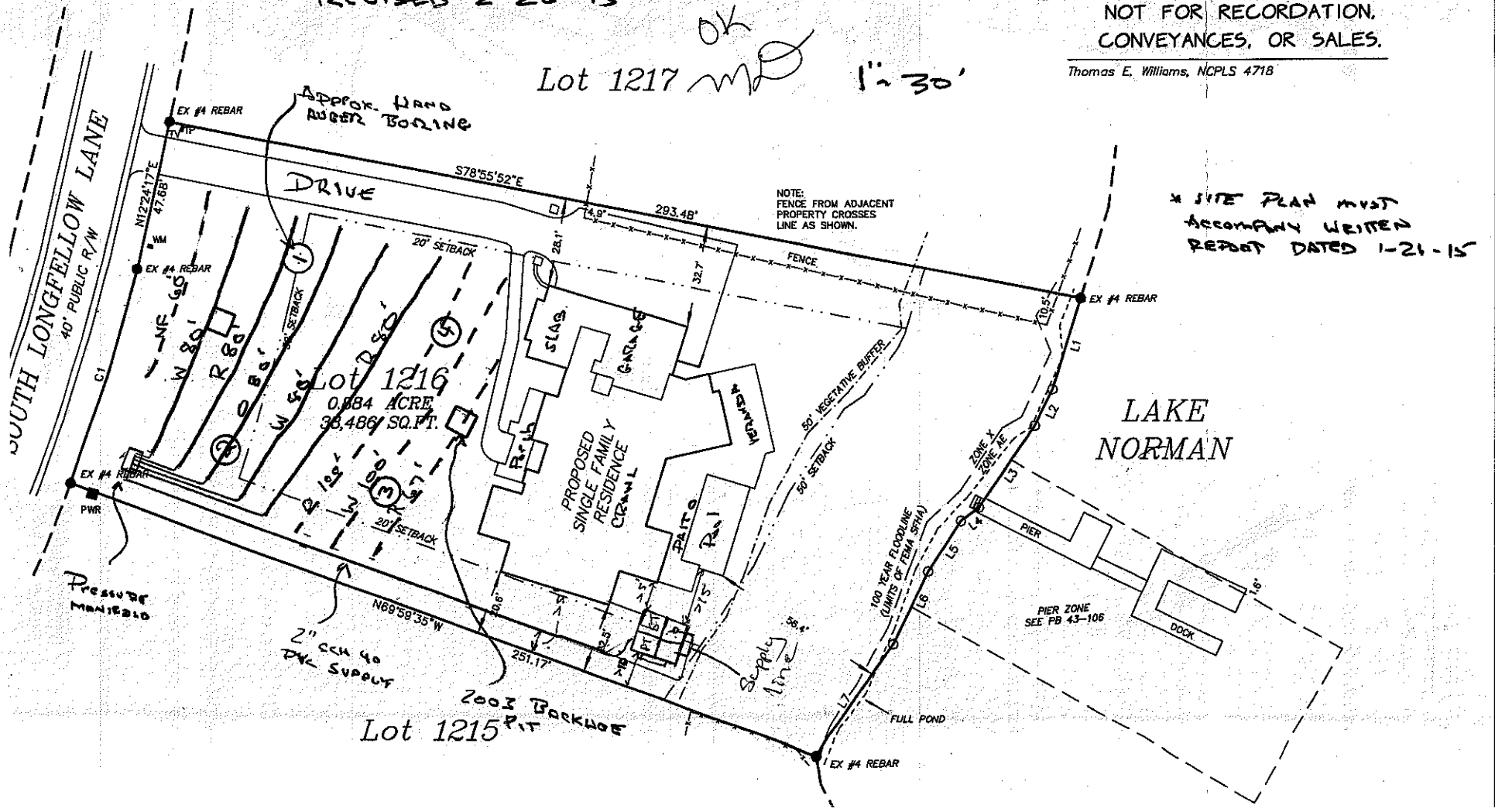
I, Thomas E. Williams, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book 2176, Page 2031, or other reference source AS NOTED); that the boundaries not surveyed are shown as broken lines drawn from information found in adjoining deeds and plats as noted; that the ratio of precision is 1 : 10,000+; and that this plat meets the requirements of The Standards of Practice for Land Surveying in North Carolina according to North Carolina Administrative Code Title 21, Chapter 56, Section 1600.

This survey is of an existing parcel or parcels of land and does not create a new street or change an existing street.

This 25th day of February, 2015.

-PRELIMINARY PLAT-
NOT FOR RECORDATION,
CONVEYANCES, OR SALES.

Thomas E. Williams, NCPLS 4718



* SITE PLAN MUST ACCOMPANY WRITTEN REPORT DATED 1-21-15

The Point 1216 Fast Track System Information (rev 3-3-15)

Stonebridge Luxury Homes, S&ME Job No. 1584-12-058G

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	*Elevation (Ft.)
1	System	White	25% Reduction	80	775.0
2	System	Red	25% Reduction	80	774.0
3	System	Orange	25% Reduction	80	773.5
4	System	White	25% Reduction	80	773.0
5	System	Red	25& Reduction	80	772.5
6	Repair	Orange	LP PPBPS	100	771.8
7	Repair	White	LP PPBPS	100	771.5
8	Repair	Red	LP PPBPS	67	771.0
9	Repair	NF	LP PPBPS	60	776.0
				Total System: 400'	
				Total Repair: 327'	

Tank	white	1500 gal (2 compartment)	*Elevation (ft)
Pump Tank	white	1000 gal.	766.0
House		Front, Right Corner	770.0

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	5
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

NOTES:

***Approximate elevations taken from 1 ft. topo map only & must be verified by installer at installation and final tank placement.**

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #4624791699
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Strongbridge
ADDRESS: Point 1216
PROPOSED FACILITY: 4bk
LOCATION OF SITE:
APPLICATION DATE
DATE EVALUATED: 2015
PROPERTY SIZE: 0,883
PROPERTY RECORDED: —
PROPOSED DESIGN FLOW (.1949): 480

WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

Approved MP 2/10/15

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 5-10%	0-6	WSBK SCL	fr SS/SP	red br	48"	C:M 28-48	—	PS .3
		6-28	MSBK C	fr S/P	red				
		28-48	WSBK CL	fr SS/SP	mott mi				
			C mica	fr/pkcs 18"+					
2	L 5-10%	0-7	WSBK SCL	fr SS/SP	br	48"	frsap	—	PS .3
		7-25	MSBK C	fr S/P	M				
		25-48	WSBK CL	fr SS/SP	mi				
			C mica	18"+					
3	C 5-10%	0-12	WSBK SCL	fr SS/SP	br	48	frsap	—	PS .3
		12-28	MSBK C	fr S/P	M				
		28-48	WSBK CL	fr SS/SP	mi				
4	C 5-10%	0-4	WSBK SCL	fr SS/SP	red br	48"	MOD 28-48	—	PS .3
		4-28	MSBK C	fr S/P	red				
		28-48	WSBK CL	fr SS/SP	red mi				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	2S2	LPP RPBC
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PEP
OTHER(S) PRESENT:
* must be approved by ICHD

COMMENTS: